

## **WHAT IS CLAIMED IS:**

1. A chassis, comprising:
  - a) a plurality of elongated members, each of the elongated member including:
    - i) a first end and a second opposite end; and
    - ii) first and second retaining structure;
  - b) a first cover having edges inserted within the first retaining structure of two of the plurality of elongated members;
  - c) a second cover positioned opposite the first cover, the second cover having edges inserted within the first retaining structure of another two of the plurality of elongated members;
  - d) end covers secured to the first and second ends of each of the elongated members; and
  - d) a front opening configured for receipt of modules.
2. The chassis of claim 1, further including a back plane captured between the second retaining structure of two of the plurality of elongated members.
3. The chassis of claim 1, wherein the edges of each of the first and second covers include a flange portion, the flange portion being inserted within the first retaining structure of the respective two elongated members.
4. The chassis of claim 1, wherein the end covers include mounting brackets for mounting the chassis to a rack.
5. The chassis of claim 1, wherein the first and second covers include ventilation apertures for ventilating an interior region of the chassis.

6. The chassis of claim 1, wherein the first, second, and end covers define an interior, the interior including a number of compartments, each compartment being configured to receive one module.
7. The chassis of claim 6, wherein each of the compartments includes at least one guide structure configured to receive one module.
8. The chassis of claim 1, further including a cable organizer positioned adjacent to the back of the chassis.
9. The chassis of claim 1, wherein the end covers include an end cover portion and extensions located along opposite edges of the end cover portion, the extensions including an extension edge arranged to position the elongated member in a position relative to the end cover portion.
10. The chassis of claim 1, wherein the end covers are secured to the elongated members by fasteners that engage holes formed in the ends of the elongated members.
11. The chassis of claim 10, wherein the fasteners are self-tapping fasteners.
12. The chassis of claim 1, wherein the elongated members are extrusions that define the first and second retaining structures.
13. The chassis of claim 1, wherein the elongated members have a uniform cross-section.
14. The chassis of claim 1 wherein the first and second retaining structures are slots extending from the first end to the second end of each of the elongated members.

15. The chassis of claim 14, wherein each of the elongated members further includes a hole extending from the first end to the second end, the hole being configured to receive fasteners for securing the end covers to each of the first and second ends of the elongated member.

16. The chassis of claim 1, wherein the second retaining structures are configured to retain modules within an interior of the chassis.

17. A chassis, comprising:

- a) a plurality of elongated members, each of the elongated member having first and second ends;
- b) a top plate interconnected between a first pair of elongated members and an opposite bottom plate interconnected between a second pair of elongated members;
- c) first and second opposite side plates, the first side plate being fastened to the first ends of each of the elongated members, and the second side plate being fastened to the second ends of each of the elongated members; and
- d) a front opening configured for receipt of modules.

18. The chassis of claim 17 further including a printed circuit board defining a back plane, the printed circuit board being interconnected between one elongated member of the first pair of elongated members and another elongated member of the second pair of elongated members.

19. The chassis of claim 17, wherein each of the top and bottom plates includes a flange located along edges of the respective plate, the flange being inserted within a slot formed in the each of the elongated members.

20. The chassis of claim 17, wherein the side plates include extensions located along opposite edges of each of the side plates, the extensions including an extension edge arranged to position the elongated member in a position relative to the side plate.

21. The chassis of claim 17, wherein the elongated members are aluminum extrusions.
22. The chassis of claim 17, wherein each of the elongated members includes a first slot and a second slot, each of the slots extending from the first end to the second end of each of the elongated members, the first slot being configured to interconnect the top and bottom plates between the first and second pairs of elongated members.
23. The chassis of claim 22, wherein each of the elongated members further includes a hole extending from the first end to the second end, the hole being configured to receive fasteners for fastening the side plates to each of the first and second ends of the elongated member.
24. The chassis of claim 22, wherein the second slots are configured to retain modules within an interior of the chassis.
25. The chassis of claim 22, wherein the second slots are configured to retain a back plane between one elongated member of the first pair of elongated members and another elongated member of the second pair of elongated members.
26. A method of assembling a chassis, the method comprising the steps of:
- a) providing a pair of first chassis structures, a pair of second chassis structures, a first cover, a second cover, and end covers;
  - b) positioning the pair of first chassis structures on edges of the first cover;
  - c) positioning the pair of second chassis structures on edges of the second cover;
  - d) securing one end cover to first ends of each of the chassis structures of the first and second pairs of chassis structures; and
  - e) securing another end cover to second ends of each of the chassis structures of the first and second pairs of chassis structures;

f) wherein the first, second, and end covers define a chassis interior configured for receipt of modules.

27. The method of claim 26, wherein the step of securing the first and second side plates to the ends of the chassis structures includes fastening the end covers to the chassis structures with fasteners.

28. The method of claim 27, wherein the first and second covers are captured between the respective first and second pairs of chassis structures by positioning the edges of each of the covers in a slot formed in each of the chassis structures.

29. The method of claim 27, wherein the slot formed in each of the chassis structures is a first slot, each of the chassis structures further including a second slot, the method further including the step of positioning a printed circuit board in the second slot of one elongated members of the first pair of elongated members and another elongated members of the second pair of elongated members.

30. The method of claim 27, wherein the slot formed in each of the chassis structures is a first slot, each of the chassis structures further including a second slot, and wherein the second slot is configured to retain modules within the chassis interior.

31. A chassis structure, comprising:

a) an extruded bar, the extruded bar having a uniform cross-section extending from a first end to a second end, the extruded bar including a first side and a second side;

b) a first slot formed in the first side, the first slot being configured for receipt of a chassis cover;

c) a second slot formed in the second side, the second slot being configured for receipt of a chassis back plane;

d) a hole extending extruded bar from the first end to the second end, the hole being configured for receipt of fasteners.

32. The chassis structure of claim 31, wherein the first and second slots extend from the first end to the second end.

33. The chassis structure of claim 31, wherein the first and second sides of the extruded bar are oriented generally perpendicular to one another